

Notice of Allowability	Application No.	Applicant(s)	
	10/720,490	DIVAKARUNI ET AL.	
	Examiner	Art Unit	
	Steven Loke	2811	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendment filed on 7/27/04.
2. The allowed claim(s) is/are 1-10.
3. The drawings filed on 24 November 2003 are accepted by the Examiner.
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

Steven Loke
Primary Examiner



Art Unit: 2811

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Roch on 10/7/04.

The application has been amended as follows:

In the specification:

In page 1, line 9, after "2001,", insert --now U.S. patent no. 6,809,368, --.

In page 8, delete lines 7-8 and insert --Figures 2(a) – (h) illustrate the TT0 nitride liner process and resulting structure for the trench-capacitor vertical dynamic random access memory (DRAM) cell array device having improved TT0 reliability according to the present invention.--.

In the claims:

Claim 1, lines 6-7, change "a DRAM cell" to --DRAM cells--;

line 11, before "collar", insert --said--;

line 14, after "sidewalls", insert --of the trenches--;

line 14, after "and", insert --said--;

line 18, after "of", insert --each of--;

line 22, change "a DRAM cell" to --said DRAM cells--.

Claim 2, line 2, delete "a";

line 2, change "layer" to --layers--;

line 3, after "and", insert --said--.

Claim 3, line 2, change "oxide and silicon" to --collar oxide regions and said Si-containing substrate--.

Claim 4, line 2, change "layer" to --layers--.

Claim 6, line 1, change "prior to" to --after--.

Claim 10, line 2, change "said" to --a divot on each of said--.

2. The oath and declaration is deficient because it does not meet the requirement under 37 C.F.R. § 1.63 (a)(2). The given name of the fifth inventor (V. C. Jaiprakash) must be in full written form. In order to avoid abandonment of the application, applicant must submit a substitute oath or declaration to correct the above error.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (571) 272-1657. The examiner can normally be reached on 7:50 am to 5:20 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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October 7, 2004

Steven Locke
Primary Examiner

